Fig.

Wild Type Template

Ö CTGAGCAGTACAGAGTCGAAATC 5' 10866(SEQ ID NO:81) TCTGACTCGTCATGTCTCAGCTTTAGTTTAATACGACTCACTATAG 3-

5'TTGCAGAGAAAAAAATATAGTTCTTGGAGAAGGTGGAATCACACTGAGTGGA 10870(SEQ ID NO:77) 3'TCCACCTTAGTGTGACTC 10865(SEQ ID NO:76) 3'CCACTTCCACCTTAGTGTGACTC 5' 10869(SEQ ID NO:79) GICTCTTTCTGTTATATCAAG 5'

Mutant Template $\mathbf{\omega}$

TCTGACTCGTCATGTCTCAGCTTTAGTTTAATACGACTCACTATAG CTGAGCAGTACAGAGTCGAAATC 5'10866(SEQ ID NO:81) 3-

5'TTGCAGAGAAAGACAATATAGTTCTTTGAGAAGGTGGAATCACACTGAGTGGA 10994(SEQ ID NO:78) 3'TCCACCTTAGTGTGACTC 10865(SEQ ID NO:76) GICTCTTTCTGTTATATCAAG 5'

3'ACACTTCCACCTTAGTGTGACTC 5' 10989(SEQ ID NO:80)

N Fig

ۍ. 3'AGCTAAGGTCACAACCGGTTTGCCGCTTTATTATACCGGGG 5' ...CCCGGAGAGACCTCCTTAAGGGGCCCATATTATTTCGTCGATTCCAGTGTTGGCCAAACGÉ SEQ ID NO:67 Å

SEQ ID NO:68

SEQ ID NO:67

5 ...cccggagagacctccttaaggggccatattatttcgtcgattccagtgttggccaaacgś

GGGCCTCTCTGGAGGAATTCCCCCGGTATAATAAGCAGCTAAGGTCACAACCGGTTTGCCGCTTTATTATCCGGGG 3.

SEQ ID NO:69

CCCGGAGAGACCTCCT 3' 🕹 SEQ ID NO:70 ບ່

GGGCCTCTCTGGAGGAATTCCCCGGTATAATAAAGCAGCTAAGGTCACAACCGGTTTGCCGGCTTTATATACCGGGG 5

<u>.</u>

SEQ ID NO:69

SEQ ID NO:71

~ 2 CCCGGAGAGACCTCCTTAAGGGGCCCATATTTTCGTCGATTCCAGTGTTGGCCAAACGGCGAAATAATATGGCCCC GGGCCTCTCTGGAGGAATTCCCCGGTATAATAAAGCAGCTAAGGTCACAACCGGTTTGCCGGCTTTATATACCGGGG

SEQ ID NO:69

. H

CCCCGGTATAATAAAGC-

CCCGGAGAGACCTCCTTAAGGGGCCATATTTATTTCGTCGATTCCAGTGTTGGCC-3.

SEQ ID NO:71